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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/512,810

DATE: 01/07/2002

TIME: 12:38:30

Input Set : A:\09-512810 Seq Listing.txt

Output Set: N:\CRF3\01072002\I512810.raw

ENTERED

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3 <110> APPLICANT: Branstrom, Arthur A.
4     Sizemore, Donata R.
5     Sadoff, Jerald C.
7 <120> TITLE OF INVENTION: Bacterial Delivery System
9 <130> FILE REFERENCE: 182.0001
11 <140> CURRENT APPLICATION NUMBER: 09/512,810
12 <141> CURRENT FILING DATE: 2000-02-25
14 <150> PRIOR APPLICATION NUMBER: US 08/711,961
15 <151> PRIOR FILING DATE: 1996-09-06
17 <150> PRIOR APPLICATION NUMBER: US 60/018,035
18 <151> PRIOR FILING DATE: 1996-05-21
20 <160> NUMBER OF SEQ ID NOS: 8
22 <170> SOFTWARE: PatentIn version 3.1
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 1674
26 <212> TYPE: DNA
27 <213> ORGANISM: Shigella sp.
29 <400> SEQUENCE: 1
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32 tgataattgc cgcggaacttt ctgcgtgcta acaaagcagg ataagtgcga ttactcatgg      120
34 cttcgctatc attgattaat ttcaacttgcg acttttgctg ctttttgtat ggtgaaagat      180
36 gtgccaaagag gagaccggca catttataca gcacacatct ttgcaggaaa aaaacgctta      240
38 tgaaaaatgt tggttttatc ggctggcgcg gtatggctcg ctccgttctc atgcaacgca      300
40 tggttgaaga gcgcgaacttc gaagccattc gccctgtctt ctttttctac ttctcagctt      360
42 ggccaggctg cgccgtcttt tggcggaacc actggcacac tcaggatgcc tttgatctgg      420
44 aggcgctaaa ggccttcgat atcattgtga cctgtcaggg cggcgattat accaacgaaa      480
46 tctatccaaa gcttcgtgaa agcggatggc aagggtactg gattgacgca gcatcgtctc      540
48 tgcgcatgaa agatgacgcc atcatcattc ttgaccccggt caatcaggac gtcattaccg      600
50 acggattaaa taatggcatc aggacttttg ttggcggtaa ctgtaccgta agcctgatgt      660
52 tgatgtcggt gggtggttta ttgcgcaatg atcttgttga ttgggtgtcc gttgcaacct      720
54 accaggccgc ttccggcggt ggtgcgcgac atatgctgta gttattaacc cagatgggccc      780
56 atctgtatgg ccatgtggca gatgaactcg cgaccccgtc ctctgctatt ctcgatatcg      840
58 aacgcaaagt cacaacctta acccgtagcg gtgagctgcc ggtggataac tttggcgtgc      900
60 cgctggcggg tagcctgatt ccgtggatcg acaaacagct cgataacggt cagagccgcg      960
62 aagagtggaa agggcaggcg gaaaccaaca agatcctcaa cacatcttcc gtaattccgg      1020
64 tagatggttt atgtgtgctg gtcggggcat tgcgctgcca cagccaggca ttcactatta      1080
66 aattgaaaaa agatgtgtct attccgaccg tggagaagact gctggctgcg cacaatccgt      1140
68 gggcgaaagt cgttccgaac gatcgggaaa tcaactatgc tgagctaacc ccagctgccg      1200
70 ttaccggcac gctgaccacg ccggtaggcc gcctgcgtaa gctgaatatg ggaccagagt      1260
72 tcctgtcagc ctttaccgtg ggcgaccagc tgctgtgggg ggccgcggag ccgctgcgtc      1320
74 ggatgcttcg tcaactggcg taatctttat tcattaaatc tggggcgcgga tgccgcccct      1380
76 gttagtgcgt aatacaggag taagcgcaga tgtttcatga ttaccggga gttaaataga      1440
78 gcattggcta ttctttaagg gtggctgaat acatgagtat tcacagcctt acctgaagtg      1500
80 aggacgacgc agagaggatg cacagagtgc tgcgccgttc aggtcaaaaa aatgtcacia      1560
82 ccagaagtca aaatccaat tggatggggt gacacaataa aacaggaaga caagcatgtc      1620
84 cgatcgtatc gatagagacg tgattaacgc gctaattgca ggccattttg cgga      1674
87 <210> SEQ ID NO: 2

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88 <211> LENGTH: 1121
89 <212> TYPE: DNA
90 <213> ORGANISM: Shigella sp.
92 <220> FEATURE:
93 <221> NAME/KEY: misc_feature
94 <222> LOCATION: (439)..(991)
95 <223> OTHER INFORMATION: The E.coli asd gene coding for b-aspartic semialdehyde
dehydrogen
96     ase identified in Seq. ID No. 1 was modified by deleting 553 base
97     pairs from position 439 to 991.
100 <400> SEQUENCE: 2
101 tccataatca ggatcaataa aactgctgca gaaatgattt cattcataac tcaaattccc      60
103 tgataattgc cgcggacttt ctgctgctga acaaagcagg ataagtcgca ttactcatgg      120
105 cttcgtctatc attgattaat ttcaattgctg actttggctg ctttttgatg ggtgaaagat      180
107 gtgccaagag gagaccggca catttataca gcacacatct ttgcaggaaa aaaacgctta      240
109 tgaaaaatgt tggttttatc ggctggcgcg gtatggctcg ctcggttctc atgcaacgca      300
111 tggttgaaga gcgcgacttc gacgccattc gccctgtctt cttttctact tctcagcttg      360
113 gccaggctgc gccgtctttt ggcggaacca ctggcacact tcaggatgcc ttgatctgg      420
115 aggcgctaaa ggcctcggga tcctcaacac atcttcgta attccggtag atggtttatg      480
117 tgtgctgtgc ggggcattgc gctgccacag ccaggcattc actattaaat tgaaaaaaga      540
119 tgtgtctatt ccgaccgtgg aagaactgct ggctgcgcac aatccgtggg cgaaagtcgt      600
121 tccgaacgat cgggaaatca ctatgctgta gctaacccca gctgccgtta ccggcacgct      660
123 gaccacgccg gtaggcgcgc tgcgtaagct gaatatggga ccagagttcc tgtcagcctt      720
125 taccgtgggc gaccagctgc tgtggggggc cgcggagccg ctgcgtcgga tgcttcgtca      780
127 actggcgtaa tctttattca ttaaactctgg ggcgcgatgc cgcctctgtt agtgcgtaat      840
129 acaggagtaa gcgcagatgt ttcatgattt accgggagtt aaatagagca ttggctattc      900
131 ttttaaggtg gctgaatata tgagtattca cagccttacc tgaagtgagg acgacgcaga      960
133 gaggatgcac agagtgtctg gccgttcagg tcaaaaaaat gtcacaacca gaagtcaaaa     1020
135 atccaattgg atggggtgac acaataaaac aggaagacaa gcatgtccga tcgtatcgat     1080
137 agagacgtga ttaacgcgct aattgcaggc cattttgcgg a                               1121
140 <210> SEQ ID NO: 3
141 <211> LENGTH: 22
142 <212> TYPE: DNA
143 <213> ORGANISM: Shigella sp.
145 <400> SEQUENCE: 3
146 agatctccct gataattgcc gc                                             22
149 <210> SEQ ID NO: 4
150 <211> LENGTH: 26
151 <212> TYPE: DNA
152 <213> ORGANISM: Shigella sp.
154 <400> SEQUENCE: 4
155 agatctcgct tactcctgta ttacgc                                             26
158 <210> SEQ ID NO: 5
159 <211> LENGTH: 20
160 <212> TYPE: DNA
161 <213> ORGANISM: Shigella sp.
163 <400> SEQUENCE: 5
164 cgagggcctt tagcgcctcc                                             20
167 <210> SEQ ID NO: 6
168 <211> LENGTH: 20

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169 <212> TYPE: DNA  
170 <213> ORGANISM: Shigella sp.  
172 <400> SEQUENCE: 6  
173 gatcctcaac acatcttccg 20  
176 <210> SEQ ID NO: 7  
177 <211> LENGTH: 22  
178 <212> TYPE: DNA  
179 <213> ORGANISM: Shigella sp.  
181 <400> SEQUENCE: 7  
182 gagctccccct gataattgcc gc 22  
185 <210> SEQ ID NO: 8  
186 <211> LENGTH: 26  
187 <212> TYPE: DNA  
188 <213> ORGANISM: Shigella sp.  
190 <400> SEQUENCE: 8  
191 gtcgaccgct tactctgtga ttacgc 26

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/512,810

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Input Set : A:\09-512810 Seq Listing.txt

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